

# OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

MAY 4, 1992  
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## Commencement Ceremony to Honor Entertainer, Labor Secretary, and Construction Entrepreneur

Dr. William H. Cosby Jr., one of the nation's most influential entertainers, Lynn Martin, the nation's 21st Secretary of Labor, and A. James Clark, an innovative entrepreneur in the construction industry, will receive honorary degrees during May 19 commencement ceremonies.

Cosby, who will be the commencement speaker, will be awarded an honorary Doctor of Fine Arts degree during the all-campus convocation which begins at 9:30 a.m. in Cole Field House.

Martin will receive an honorary Doctor of Public Service degree, and Clark, an honorary Doctor of Engineering degree.

Cosby, through his concert appearances and recordings, on television and in films, and his personal support of education, has touched the lives of millions of Americans.

*The Cosby Show*, now completing its eighth and final season, is regarded as the most successful television series of the modern era. His books, *Fatherhood*, *Time Flies*, *Love and Marriage*, and *Childhood* all have occupied the number one spot on *The New York*

*Times* bestseller list.

Contributions by Cosby and his wife Camille to predominantly Black colleges have brought national attention to the importance of these institutions.

Since her appointment as the nation's 21st Secretary of Labor last year, Lynn Martin has worked diligently to promote job security and opportunity for America's working men and women.

She has tackled such workplace issues as skills standards, life-long learning, a school-to-work apprenticeship system, health and safety, pension portability, and opportunity for minorities and women.

A. James Clark, chairman of the board and president of Clark Enterprises, Inc., (CEI), transformed a small, regional construction firm into a national giant.

Clark is also chairman of the board and president of the Clark Construction Group, Inc., the holding company of CEI's construction-related concerns.

Clark, who received his degree in civil engineering from the university in 1950, was instrumental, while a member of the university's Board of Regents, in establishing a degree program in Construction Engineering and Management in the College of Engineering.



Dr. William H. Cosby Jr.



A. James Clark



Lynn Martin

## New Site Chosen for Child Care Center

The Center for Young Children's new facility will be located just north of Elktion Hall instead of the original site in Parking Lot 1 next to Caroline Hall, according to June Wright, acting director of the center.

The current site was selected as the result of concerns over building a one-story, non-academic/instructional facility at the Caroline Hall site which is much better suited for a larger academic building, according to Brenda Testa, director of Resource Planning in the Office of Resource Planning and Budgets.

"There was concern over how the

construction of the new facility might affect future development plans for this area of the campus," says Testa.

Wright says that she is pleased with the decision to place the center next to the Denton complex.

"I think it's an appropriate site for several reasons," says Wright. "It is a quiet spot, off the main road and close to several groves of trees suitable for story times and picnics. Because it is near the main campus, the children will be able to continue the many walking field trips which

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## High-Energy Physicists Win \$7.9 Million DOE Grant

The U.S. Department of Energy has awarded a five-year, \$7.9 million grant to a group of high-energy physicists at College Park.

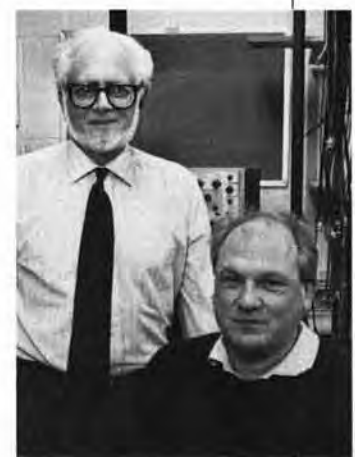
The group includes principal investigators Andris Skuja and George A. Snow; and co-investigators Chung Yun Chang, Gus T. Zorn, Nicholas J. Hadley, Andrew R. Baden, Abolhasan Jawahery, Austin H. Ball, Richard Kellogg, Shuichi Kunori, and several graduate students, engineers and technical staff.

High-energy physicists study the disintegration of the world of matter into its most minute component parts. Such disintegrations are achieved by colliding protons against protons or electrons against positrons

(positive electrons) and studying the ensuing debris of subatomic particles. The goal of such studies is to understand the building blocks of the entire universe, from the smallest constituents to objects of cosmological scale, dating back to the formation of the universe itself.

The data for such explorations are collected at high energy accelerator laboratories located around the globe, including the European Center for Scientific Research (CERN) in Geneva, Switzerland, and Fermilab at Batavia, Illinois. The experiments are large, complex and involve large numbers of physicists. Nevertheless,

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Andris Skuja and George A. Snow



## Campus Senate to Meet May 4

The Campus Senate will meet Monday, May 4 at 3:30 p.m. in Room 0126, Reckord Armory. Special orders of the day include remarks from the members of the 21st Legislative Delegation of the Maryland General Assembly, and "Moving Beyond *Hard Choices*," an address by President William E. Kirwan. A 15-minute Q&A session with the president will follow. Action items include a motion to approve the continuing education credential program and UMCP procedures on conflict of interest in sponsored research and economic development.

## Teaching Fellows Program Announces Recent Selections, Changes Name



Fellows from left back: Vincent Marando, Peggy Johnson, Anthony Colantuono, Maynard Mack, Jr., co-coordinator; front: Robert Ridky, Eileen McLellan, William Maloney, Peter Afflerbach, Erve Chambers, Yvonne Gentzler. Not pictured is Kathryn Mohrman, co-coordinator.)

Nine faculty members from several disciplines have been selected to be 1992-93 Lilly-CTE Teaching Fellows.

The are: Peter Afflerbach, associate professor, curriculum and instruction; Erve Chambers, professor, anthropology; Anthony Colantuono, assistant professor, art history; Yvonne Gentzler, assistant professor, industrial, technological, and occupa-

tional education; Patti Gillespie, professor, theatre; Peggy Johnson, assistant professor, civilengineering; William Maloney, professor, civil engineering; Vincent Marando, professor, government and politics; Eileen McLellan, associate professor, geology; and Robert Ridky, associate professor, geology.

While past recipients of the fellowships were known as Lilly Teaching Fellows, support from the Lilly Endowment ends in June. The program will continue, however, as a joint venture between Office of the Dean for Undergraduate Studies and the Center for Teaching Excellence (CTE).

Along with a name change, the fellowships also will change in structure. Since 1989 when the Lilly program was announced, only junior faculty were eligible for the fellowships. Now, the Lilly-CTE Fellowships are open to all full-time

tenured and tenure track faculty.

The fellowships provide \$3,000 per faculty member to develop projects and topics related to undergraduate teaching. The support may be used for an individual's greatest need—summer support, a graduate assistant, professional expenses, and the like.

Co-sponsorship of the teaching fellowships is just one of the many activities supported by the Center for Teaching Excellence.

Now in its second year, the center supports the campus-wide efforts to enhance and reform undergraduate education. It also offers tangible assistance to individual faculty and teaching assistants as well as to the departments and colleges in which they work.

For more information on the Center for Teaching Excellence, call Jim Greenberg, the project coordinator, at x53154 or x59363.

—John Fritz

## AJC, Budapest, to Hold First Summer School

The American Journalism Center, Budapest (AJCB), a program funded by the International Media Fund and sponsored by the university, will hold its first journalism summer school for American and Hungarian college students this July 17-26.

In cooperation with the Hungarian College of Applied Arts, the intensive ten-day seminar, "A Comparison of Journalism and Mass Communication in Two Different Societies," will be held at the Taurus Castle Hotel in

Seregelyes, just outside of Budapest.

UMCP Professor of Journalism and AJCB Director Ray Hiebert is coordinating the program. The center was established last year to help Hungarians develop formal educational programs in journalism.

To date, ten seminars have been held with more than 250 Hungarian journalists and university students attending. On May 8 and 9, a seminar will be held at Lake Balaton in Hungary primarily for government

officials, most of whom are inexperienced in working with a free press. A similar seminar will be presented in Warsaw and Bucharest.

For specifics on attending the AJCB summer school, contact Lisa Ellis at 405-7690.

## OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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UNIVERSITY OF MARYLAND AT COLLEGE PARK

## SRC Researchers Win Outstanding Invention of the Year Award



John Baras and Yu-hung Kao

John Baras, Martin Marietta Chair in Systems Engineering, and graduate research assistant Yu-hung Kao, both of the Systems Research Center, have won the Outstanding Invention of 1991 award.

The researchers were recognized for their development of a novel method which digitally codes human speech using a codebook excited linear predictive (CELP) speech processor. The invention will have a wide variety of applications for all devices

that require digital coding of human speech such as digital radio and telephone transmission. It is hoped that this invention will aid in the integration of voice/data for rapidly evolving telecommunications systems.

The award was presented during a recent reception honoring campus inventions and inventors hosted by the Graduate Studies and Research Office of Technology Liaison. The Invention of the Year award has been presented to university researchers since 1987.



## Maryland Vietnam Roundtable to Host Conference

The Maryland Vietnam Roundtable, a network of academic departments and research institutes at the university, is sponsoring a conference on "Strategies for Reconciliation and Beyond: The United States and Vietnam" May 8 from 8:30 a.m. to 4:30 p.m. at the Carnegie Endowment for International Peace in Washington, D.C. The registration fee is \$15 and includes lunch. For more information, contact Lois Vietri at 405-4152.

# NEWS

## New Honors Program in Electrical Engineering to be Offered

Beginning with the 1992 fall semester, a new Honors program in electrical engineering will be available for undergraduate students at College Park.

The program, according to William W. Destler, chair of the Department of Electrical Engineering, will offer a special track of studies for highly motivated and talented students. They will take special Honors sections in each of the most important science and engineering courses dur-

ing their undergraduate studies. The program will culminate in a special "capstone" Honors design project during the students' senior year.

Uzi Vishkin, Professor of Electrical Engineering and the University of Maryland Institute for Advanced Computer Studies (UMIACS), who initiated the new program, describes it as "translating our quality in research into quality in education." The Department of Electrical Engineering at College Park is ranked

among the top ten in the nation. The new program, he says, demonstrates the university's continuing commitment to providing first rate undergraduate education.

Approximately 30 students are expected to enroll in the Honors program in electrical engineering. For more information, contact the Department of Electrical Engineering at 405-3683.

## New Site Picked for Child Care Center

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are such an integral part of our curriculum."

Parents will also be able to visit their children during their lunch hour, says Wright.

"We will also be easily accessible to students from various departments who do internships and who come to observe child study courses," she says.

She is also pleased that the new site is situated near both Denton and Elkton dormitories.

"We have a very positive relationship with the students," she says.

"They enjoy working for us and we enjoy having them."

The new center will probably not be

ready to move into until spring/summer 1993.

Like the previous plans, the new building will feature classrooms opening onto a room to be used for several purposes, including large muscle activities during inclement weather, observation, and professional training.

Also in keeping with the center's research goals, classrooms will be equipped to transmit audio into observation rooms and video into conference rooms and College of Education classrooms.

Since opening its doors in September 1988, the center, which serves approximately 80 children, has resided in Cambridge Dining Hall.

—Lisa Gregory

## Budget Update

The dedication and commitment demonstrated over the course of the past academic year by hundreds of friends of College Park including faculty, staff, students, alumni, parents and other loyal supporters paid off when the General Assembly and the Governor restored to the university some of the monies previously lost.

Two years ago, College Park had a budget high of \$242 million. After a series of cuts, the campus ended up with an adjusted FY 92 budget of \$199 million. The FY 93 budget is \$212 million, almost \$13 million more than the FY 92 adjusted budget.

"The Governor and the General Assembly have taken an unprecedented step by singling out College Park for favorable treatment in the FY 1993 budget," notes President William E. Kirwan. "Even though there is still a large gap between our current level of funding and that of our FY 1991 allocation, I am pleased to note that the restoration of our cuts

has begun.

"Although the budget rescissions of the last 18 months have affected us deeply, I remain convinced that most of our goals and dreams for College Park can be realized."

The budget has been called "a victory for the supporters of the campus," by Del. James Rosapepe, a long-time and vigorous supporter of the university.

Rosapepe warned, however, that College Park must continue to remain active. "It is critical for the university to learn from this experience and to continue to educate itself and mobilize itself in participating in the legislative process. There is a long-term need to build the support base across the state that other public universities have. Individual citizens can have an impact. Legislators need to know that people are concerned and are paying attention to the issue of public higher education in Maryland."

## Chemistry Department to Host Chemathon

The Eighth Annual Chemathon will be hosted by the Department of Chemistry and Biochemistry on Saturday, May 9 from 8 a.m. to 1:15 p.m. in the Chemistry Building.

The Chemathon is a spirited competition in which teams of high school students from Maryland, Virginia and Washington, D.C. test their laboratory skills and knowledge of chemical theory.

In the "Mendeleev Madness" event, teams will answer questions about the periodic table of elements. In "Battering the Gases," students will compete with batteries they have built to see which one provides the most power. Other events include, "Make my [Fara]day," "Chemical Jeopardy," and "Hydronium Hyjinks."

Because the events are for fun, students who compete do not necessarily have to be at the top of their class in lecture or laboratory chemistry.

There will be two competitive tracks, one for first-year and another for second-year chemistry students. A school may enter one team, composed of a maximum of six students who are accompanied by a chemistry teacher, at each level.

Area high school and university chemistry teachers judge the Chemathon events. Awards are given to the first, second and third place teams in each event and the overall first, second and third place teams.

For more information call Howard DeVoe at 405-1833.



# CALENDAR

## MAY 4 - AUGUST 25, 1992

The summer calendar information is as full and up-to-date as possible as of April 28, 1992. Because events may be cancelled or changed over the course of the summer, it is a good idea to call ahead before attending an event. Each listing includes a phone number for confirmation and other information.

### 4 MONDAY

**Center for International Extension Development (CIED) Brown Bag Seminar:** "Strategic Extension: A Problem-Oriented Approach to Agricultural Development in Zambia." William M. Rivera, Agricultural and Extension Education, noon-1 p.m., 0115 Symons. Call 5-1253 for info.

**Agricultural and Resource Economics Seminar:** "The Failure of Economic Instruments in Emission When Technological Indivisibilities Dominate." N. Becker and M. Scheochter, University of Haifa, and M. Baron, The Technion, Haifa. 12:30-2:30 p.m., 2200 Symons. Call 5-1293 for info.

**Germanic and Slavic Languages and Literatures Lecture:** "One Hundred Years of Danish Literature: Texts, Poems and Songs from 1892 to 1992." Christian Steffensen, Jesper Mark. 3 p.m., 2102 Tawes. Call 5-4091 for info.

**Campus Senate Meeting,** 3:30 p.m.-6:30 p.m., 0126 Reckord Armory. Call 5-5805 for info.

**Engineering Colloquium:** "Laser Surgery: Past, Present, and Future." Michael Berns, University of California, 3:30 p.m., Building 3 Auditorium, Goddard Space Flight Center, Greenbelt. Call 6-3820 for info.

**Entomology Colloquium:** "Theoretical Modes of Gene Interactions in the Evolution of Populations." Michael Wade, U. of Chicago. 4 p.m., 0200 Symons. Call 5-3912 for info.

**Horticulture Colloquium:** "Genetic and Phenotypic Diversity Within and Among Species and Groups of an Impatiens Germplasm Collection." Virginia D. Lerch, Horticulture. 4 p.m., 01288 Holzapfel. Call 5-4336 for info.

**Computer Science at College Park Colloquium:** "Instruction Animated Agents." Bonnie Lynn Weber, University of Pennsylvania. 4 p.m., CLB 0111. Reception. 3:30. 1152 AVW. Call 5-2661 for info.

**Space Science Seminar:** "Observations of Inductive Electric Fields in the Cross-Tail Current Sheet both Prior to and During Substorm Associated Disruption Near the Earth." Don Mitchell, Johns Hopkins. 4:30 p.m., 1113 Computer/Space Science. Call 5-6226 for info.

**Guarneri String Quartet Open Rehearsal,** 7 p.m., Tawes Recital Hall. Call 5-5548 for info.

### 5 TUESDAY

**Ecology Seminar:** "Scale dependent Responses to Resource Spatial Pattern: Plants, Aphids, and Natural Enemies." Steve Vail, Princeton University. noon, 1208 Zoo/Psych. Call 5-6946 for info.

**Systems Research Seminar:** "Random Walks on Zn." J.W. Cohen, CWI, Amsterdam. 3 p.m., 2168 A.V.W. Call 5-6634 for info.

**Language Center Lecture:** "Conditions for Second Language Learning." Bernard Spolsky, Bar-Ilan University, Israel. 4 p.m., Multipurpose Room, St. Mary's Language House. Reception to follow. Call 5-4926 for info.

**Wellness Research Lab Golf Class,** Robert Tyler and Ron Scales. 5-6:30 p.m., UMCP Driving Range. Call 5-2438 for info.

### 6 WEDNESDAY

**Art Gallery Exhibition:** "MFA Thesis Exhibition." May 6-19; opening reception. 5-7 p.m., The Art Gallery. Call 405-2763 for info.

**Counseling Center Research and Development Meeting:** "Childhood Attachment Patterns and Internal Models of Self." Daneen Olsen-Rando, Counseling Center. noon-1 p.m., 0106 Shoemaker. Call 4-7691 for info.

**Molecular and Cell Biology Seminar:** "Developmental Regulation of Genes That Regulate Skeletal Myogenesis." Charles Emerson, Fox Chase Cancer Center, Philadelphia. 12:05 p.m., 1208 Zoo/Psych. Call 5-6991 for info.

**Zoology Seminar:** "Expression and Developmental Regulation of the Human Eta Globin Gene in Transgenic Mice." Diana Shih, Zoology. 3:30 p.m., 1208 Zoo/Psych. Call 5-6887 for info.

**Robotics Seminar:** "Space Station Robotic Systems." Joe Parish, NASA. 4-5 p.m., Rotorcraft Conference Room, Building 093. Call 5-7353 for info.

**Latin American Studies Lecture:** "Mexico City and the Royal Indian, 1876-1910." Barbara Tenenbaum, Rockefeller Resident Humanities Fellow, Spanish and Portuguese. 5 p.m., Multipurpose Room, St. Mary's Hall. Call 5-6441 for info.

**University Chorale Annual "Pops" Concert,** Gershwin and Broadway hits. Roger Folstrom, conductor. 8 p.m., Tawes Recital Hall. Call 5-5548 for info.

**Maryland Chorus,** Kennedy Center Concert Hall. Call 5-5548 for info.

### 7 THURSDAY

**"Civilized Events,"** informal gathering of faculty, staff and graduate students for collegial conversation. 8:30-10 a.m., Rossborough Inn. Breakfast will be served. Call 5-8450 for info.

**Committee on Africa and Africa in the Americas Brown Bag Seminar:** "Reflections on Modernity in Latin America: Zora Neal Hurston and Gabriel Garcia Marquez." Ineke Phaf, Spanish and Portuguese. noon, 1102 F.S. Key. Call 5-2118 for info.

**Systems Research Center Lecture:** "Control and the Signal Processing in Semiconductor." Thomas Kailath, Stanford University. 3-4 p.m., 1100 ITV. Call 5-6632 for info.

**Meteorology Seminar:** "Approaches to Optimum Truncation for Atmospheric Models." Ferdinand Baer, Meteorology. 3:30 p.m., 2114 Computer and Space Sciences; refreshments. 3 p.m. Call 5-5392 for info.

**Engineering Research Center Reliability Seminar:** "Fault Tolerant Engine Controller for the Space Shuttle main Engine." Chris Walter, Allied Signal Aerospace Technology Center. 5:15-6:15 p.m., 2110 Chemical and Nuclear Engineering Bldg. Call 5-3887 for info.

**"Physics is Phun" Lecture/Demonstration:** "A Potpourri of Physics." Richard Berg. today-May 9, 7:30-8:45 p.m., lecture hall, Physics Bldg. Call 5-5994 for info.

**University Chorale Annual "Pops" Concert,** Gershwin and Broadway hits. Roger Folstrom, conductor. 8 p.m., Tawes Recital Hall. Call 5-5548 for info.

### 8 FRIDAY

#### LAST DAY OF CLASSES

**Botany Seminar:** "Characterization of HmA Modulating Hypersensitive Response of Pseudomonas syringae pv. syringae." Sunggi Heu, Botany. noon. 2242 Patterson. Refreshments. 11:30 a.m., 1216 Patterson. Call 5-1588 for info.

**Agricultural and Resource Economics Seminar:** "Developing the World Bank's Policy for Water Resources Development." William Easter. University of Minnesota and World Bank. noon-2 p.m., 2200 Symons. Call 5-1293 for info.

**Curriculum and Instruction Colloquium:** "Professional Development School at Kennedy High School A Growing Collaboration." noon - 1:30 p.m., 2119 Benjamin. Call 5-3117 for info.

**Fluid Dynamics Review Seminar:** "Bifurcation Phenomena in Nonaxisymmetric Taylor-Couette Flow." Bo Hammer, Naval Surface Warfare Center. 2 p.m., 2164 Engineering. Call 5-5272 for info.

**Lesbian and Gay Staff and Faculty Association Meeting,** social gathering. 4:30 p.m.; program. 5 p.m. Call Susan Leonardi at 5-3833 or Michael Marcuse at 301/585-6015 for location and info.

**Armory Gym Closes for Semester,** 7 p.m.

**Crossroads in Film Series: Zan Boko (Homeland),** 7:30 p.m., 2203 Art/Soc. Call 5-7856 for info.

**"Physics is Phun" Lecture/Demonstration:** "A Potpourri of Physics." Richard Berg. today-May 9, 7:30-8:45 p.m., lecture hall, Physics. Call 5-5994 for info.

**Artist Scholarship Benefit Series,** An Evening of Jazz. Ronnie Wells, vocalist and Ron Elliston, pianist. 8 p.m., Tawes Recital Hall. \$15 general admission, \$9 students and seniors. Call 5-5548 for info. \*

### 9 SATURDAY

**"Physics is Phun" Lecture/Demonstration:** "A Potpourri of Physics." Richard Berg. 7:30-8:45 p.m., lecture hall, Physics. Call 5-5994 for info.

## "Cycle Across Maryland" Tour to End at UMCP

College Park will be the terminus of the 300-plus mile First National Bank "Cycle Across Maryland," a bicycle tour tracing Maryland's historic routes. Riders will have opportunities to explore restored railroad stations, National Register sites, the C&O Canal, battlefields, museums and historic villages. The week-long trip begins July 26 with check-in at Frostburg and ends August 1 with a 45 mile final leg from Olney to College Park. For more information, call 1-800-842-BANK.

### 11 MONDAY

**Wellness Research Lab Tennis Class,** Lee Vander Velden and Don Steel. 10-11 a.m., tennis courts near lot PP. Call 5-2438 for info.

**President's Commission on Women's Affairs Meeting,** noon-1:30 p.m., 1102 F.S. Key. Call 5-5806 for info.

### 12 TUESDAY

**Wellness Research Lab Golf Class,** Robert Tyler and Ron Scales. 5-6:30 p.m., UMCP Driving Range. Call 5-2438 for info.

### 13 WEDNESDAY

**Wellness Research Lab Tennis Class,** Lee Vander Velden and Don Steel. 10-11 a.m., tennis courts near lot PP. Call 5-2438 for info.

**Fun Walk for National Employee Health and Fitness Day,** register between 11:45 a.m. and 12:10 p.m., Reckord Armory. Call 4-7218 for info.

### 14 THURSDAY

**1992 Wolf Symposium in Agriculture,** lecturing Wolf laureates are Karl Maramorsch, Rutgers; Wendell Roelofs, Cornell; Henry Lardy and Robert Burris, U. of Wisconsin. 9 a.m.-5 p.m., 1123 Center of Adult Education. Call 403-4696 for info.

**Instructional Television System Satellite Television Videoconference:** "Resonant Tunneling: Devices and Applications." Hung Lin, Electrical Engineering. 11 a.m.-5 p.m., ITV Building. \$50 fee. Call 5-4905 for info. \*

**Molecular and Cell Biology Seminar:** "Regulation of Membrane Traffic by Small GTP-Binding and Proteins." Marino Zerial, European Molecular Biology Laboratory. noon, 1208 Zoo/Psych. Call 5-7680 for info.

**Meteorology Seminar:** "Circulation in the Winter Stratosphere." Mark Schoeberl, NASA. 3:30 p.m., 2114 Computer and Space Sciences; refreshments. 3 p.m. Call 5-5392 for info.

### 15 FRIDAY

**Wellness Research Lab Tennis Class,** Lee Vander Velden and Don Steel. 10-11 a.m., tennis courts near lot PP. Call 5-2438 for info.

**Agricultural and Resource Economics Seminar:** "The Environmental Cost of Sustainable Welfare." Schmucl Amir, Soreq Nuclear Research Center and Resources for the Future. noon-2 p.m., 2200 Symons. Call 5-1293 for info.

**Botany Seminar:** "Molecular Genetic Analysis of Carotenoid Biosynthesis in Cyanobacteria as a Model for Higher Plants." Buddy Cunningham, Botany. noon, 2242 Patterson. Refreshments. 11:30 a.m., 1216 Patterson. Call 5-1588 for info.

**Maryland Boys Choir Concert,** 8 p.m., Call 5-5548 for info.

### 18 MONDAY

**Spring 1992 Commencement Ceremonies,** Human Ecology. 7:30 p.m., Reckord Armory; Life Sciences. 7:30 p.m., Memorial Chapel. Call 5-2109 for info.

### 19 TUESDAY

**Campus-wide Commencement Convocation:** Bill Cosby, speaker, 9:30 a.m., Cole Field House. Individual college graduation ceremonies to be held at 11:30 a.m., 12:30 p.m., 1:30 p.m., 2:30 p.m., and 7:30 p.m. See details below.

**Spring 1992 Commencement Ceremonies:**  
**Arts and Humanities, 11:30 a.m.;**  
**Architecture, 12:30 p.m.,**  
**Architecture Auditorium; Agriculture, 12:30 p.m.,**  
**Memorial Chapel;**  
**Behavioral and Social Sciences, 12:30 p.m.,**  
**Cole Student Activities Building; Education, 12:30 p.m.,**  
**Reckord Armory; General Studies and Individual Studies, 12:30 p.m.,**  
**Colony Ballroom; Health and Human Performance, 12:30 p.m.,**  
**2101 Health and Human Performance Building; Library and Information Services, 12:30 p.m.,**  
**1240 Zoo/Psych; Public Affairs, 12:30 p.m.,**  
**LeFrak Hall; Journalism, 2:30 p.m.,**  
**Tawes Theatre; Business and Management, 2:30 p.m.,**  
**Cole Student Activities Building; Computer, Mathematical and Physical Sciences, 2:30 p.m.,**  
**Memorial Chapel, Engineering, 2:30 p.m.,**  
**Reckord Armory. Call 5-2109 for info.**

**Dingman Center for Entrepreneurship Seminar:** "Entrepreneur's Guide to Navigating Through the Legal Mine Field." 6:30-9:30 p.m. \$35 regular admission, \$15 UM Faculty, Staff, and Students. Call 5-2151 for info and registration. \*

WEDNESDAY, MAY 20  
**International Business and Foreign Language Studies Workshop:** "Teaching Foreign Language in an International Business Environment," panels and presentations. 8:30 a.m. - 4:30 p.m. \$10 registration fee. Call 5-4926 for info.

THURSDAY, MAY 21  
**Instructional Television System Satellite Television Videoconference:** "Open Systems Interconnection." Ashok Agrawala and Bijendra Jain. Computer Science. 11 a.m.-5 p.m. ITV Building. \$95 fee. Call 5-4905 for info. \*

TUESDAY, MAY 26  
**Campus Recreation Services:** Summer Activity Cards and Aerobic Express Cards go on sale.



## FUN WALK for National Employee Health & Fitness Day

Campus Recreation Services invites all members of the campus community to take part in a lunchtime Fun Walk in celebration of National Employee Health & Fitness Day, May 13. Register in front of Reckord Armory between 11:45 a.m. and 12:10 p.m. Present a picture ID and a UMCP ID card to participate. The course for this predicted-time walk will be 2 to 2 1/2 miles long. Prizes will be awarded to men and women in each of four age groups who come closest to their predicted time. Other prizes will be awarded through random drawing. In the event of rain, come anyway for fitness walking in the Armory. For info, call 314-7218.

# CALENDAR

## 28 THURSDAY

**Instructional Television System Satellite Television Videoconference:** "The 5-Hour MBA," Julian Simon and Peter Bruce, Business, 11 a.m.-5 p.m., ITV Building. Call 5-4905 for info.\*

## JUNE

## 2 TUESDAY

**Instructional Television System Satellite Television Videoconference:** (June 2-3) "Neural Networks and Real Time Control," Paul Werbos and Anthony Barbera, Engineering, 11 a.m.-5 p.m., ITV Building. \$200 fee. Call 5-4905 for info.\*

## 3 WEDNESDAY

**Conference and Luncheon for Office Support Staff,** 8:30 a.m.-4:30 p.m., Stamp Student Union. Call 5-1105 for info.

## 8 MONDAY

**Dingman Center for Entrepreneurship Seminar:** "Public Programs and Resources for Entrepreneurship," 6:30-9:30 p.m. \$35 regular admission, \$15 UM Faculty, Staff, and Students. Call 5-2151 for info and registration.\*

## 9 TUESDAY

**Instructional Television System Satellite Television Videoconference:** "Reliability and Quality as Competitive Weapons," Arjang Assad and David Weiss, Engineering, 11 a.m.-5 p.m., ITV Building. \$95 fee. Call 5-4905 for info.\*

**Summer Chamber Music Series:** Karr-Lewis Duo, double bass and piano, 8:15 p.m., University College Conference Center Auditorium. \$15 reserved seating. Call 5-6538 for info and tickets.\*

## 13 SATURDAY

**National Orchestral Institute Concert,** with Kenneth Jean, Music Director of the Florida Symphony, music of Kodaly, Smetana, Bruckner, 8:15 p.m., Tawes Theatre. Call 5-6538 for info.

## 15 MONDAY

**National History Day,** Student history projects open to the public today-June 16, 5:30-8 p.m., June 17, 9 a.m.-5 p.m., Grand Ballroom, Stamp Student Union. Call 4-7884 for info.

## 18 THURSDAY

**Summer Chamber Music Series:** New World String Quartet, 8:15 p.m., University College Conference Center Auditorium. \$15 reserved seating. Call 5-6538 for info and tickets.\*

## 18 THURSDAY

**Instructional Television System Satellite Television Videoconference:** (June 18-19) "Reliability Issues in Microelectronic Packages and Printed Wiring Boards," Donald Barker, Abhijit Dasgupta, and Michael Pecht, Engineering, 11 a.m.-5 p.m., ITV Building. \$150 fee. Call 5-4905 for info.\*

## 20 SATURDAY

**National Orchestral Institute Concert,** with British conductor Christopher Seaman, music of Vaughan Williams, Brahms, Shostakovich, 8:15 p.m., Tawes Theatre. Call 5-6538 for info.

## 23 TUESDAY

**Summer Chamber Music Series:** Saturday Brass, 8:15 p.m., University College Conference Center Auditorium. \$15 reserved seating. Call 5-6538 for info and tickets.\*

## 24 WEDNESDAY

**Instructional Television System Satellite Television Videoconference:** "Managing the Human-Computer Interface," Ben Schneiderman, Computer Science, 1-3 p.m., ITV Building. \$30 fee. Call 5-4905 for info.\*

## 9 SATURDAY

**National Orchestral Institute Concert,** with Joseph Silverstein, Music Director of the Utah Symphony, conducting works by Verdi, Beethoven and Elgar, 8 p.m., Joseph Meyerhoff Symphony Hall, Baltimore. \$15 reserved seating. Call 5-6538 for info and tickets.\*

## 30 TUESDAY

**Summer Chamber Music Series:** Carter Brey, cello, and Christopher O'Riley, piano, perform Edvard Grieg's Cello Sonata, 8:15 p.m., University College Conference Center Auditorium. \$15 reserved seating. Call 5-6538 for info and tickets.\*

## JULY

## 23 TUESDAY

**Instructional Television System Satellite Television Videoconference:** (July 7-8) "The Mathematics of Reliability Engineering," Mohammad Modarres and David Weiss, Engineering, 11 a.m.-5 p.m., ITV Building. \$150 fee. Call 5-4905 for info.\*

## 18 THURSDAY

**University of Maryland William Kapell Piano Competition,** Preliminary Rounds, 2-5 p.m. and 7:30-10:30 p.m., Tawes Theatre, \$5 admission. Call 5-6538 for info.\*

## 10 FRIDAY

**University of Maryland William Kapell Piano Competition,** Preliminary Rounds, 9:30 a.m.-12:30 p.m., 2:30 - 5:30 p.m., and 7:30-10:30 p.m., Tawes Theatre, \$5 admission. Call 5-6538 for info.\*

## 11 SATURDAY

**University of Maryland William Kapell Piano Competition,** Preliminary Rounds, 9:30 a.m.-12:30 p.m., Tawes Theatre, \$5 admission. Call 5-6538 for info.\*

## 12 SUNDAY

**University of Maryland William Kapell Piano Competition,** Semi-Final Round, 3-6 p.m., Tawes Theatre. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Recital,** Seymour Lipkin, Festival Artistic Director, USA, 8:30 p.m., Tawes Theatre. \$15 reserved seating. Call 5-6538 for tickets and info.\*

## 13 MONDAY

**University of Maryland International Music Festival Symposium:** "The Changing Prospects for a Musical Career," Seymour Lipkin, moderator, 10-11:30 a.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Master Class,** Conrad Hansen, 1-2:30 p.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland William Kapell Piano Competition,** Semi-Final Round, 3-6 p.m., Tawes Theatre. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Recital,** Grigory Sokolov, Russia, 8:30 p.m., Tawes Theatre. \$15 reserved seating. Call 5-6538 for tickets and info.\*

## 14 TUESDAY

**University of Maryland International Music Festival Lecture-Recital:** "Schumann's Humoreske, Op. 20: An anthology of the composer's early keyboard style," Thomas Schumacher, 10-11:30 a.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Master Class,** Seymour Lipkin, 1-2:30 p.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland William Kapell Piano Competition,** Semi-Final Round, 3-6 p.m., Tawes Theatre. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Recital,** Paul Badura-Skoda, Austria, 8:30 p.m., Tawes Theatre. \$15 reserved seating. Call 5-6538 for tickets and info.\*

## 15 WEDNESDAY

**University of Maryland International Music Festival Lecture-Recital:** "Schumann's Phantasie in C major, Op. 17," Pavlina Dokovska, 10-11:30 a.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Master Class,** Paul Badura-Skoda, 1-2:30 p.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland William Kapell Piano Competition,** Semi-Final Round, 3-6 p.m., Tawes Theatre. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Recital,** Gary Graffman, USA, 8:30 p.m., Tawes Theatre. \$15 reserved seating. Call 5-6538 for tickets and info.\*

## 16 THURSDAY

**University of Maryland International Music Festival Symposium:** "The Teaching of Four Great Artists," 10-11:30 a.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**Friends of MSICPA Awards Luncheon,** 11:45 a.m.-1:45 p.m., Center of Adult Education. \$25 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Master Class,** Gary Graffman, 1-2:30 p.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland William Kapell Piano Competition,** Final Round, Recital Phase, 7 p.m., Tawes Theatre. \$15 admission. Call 5-6538 for info.\*

**"The Exciting World of Drum Corps,"** show, 7:30 p.m., Byrd Stadium. Admission is \$8 in advance, \$10 at the door. Doors open 5 p.m. Call 1-800-323-0974 for info.

## 17 FRIDAY

**University of Maryland International Music Festival Lecture-Recital:** "The Piano Music of Rachmaninoff," Santiago Rodriguez, 10-11:30 a.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Lecture-Recital:** "The Recent Piano and the Recent Pianist," Joel Sachs, 1-2:30 p.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival,** International Piano Archives at Maryland, "Casadesus in America," 3:30-5:30 p.m., Hornbake Library. Call 5-6538 for info.

**University of Maryland International Music Festival Recital,** Moura Lympny, UK, 8:30 p.m., Tawes Theatre. \$15 reserved seating. Call 5-6538 for tickets and info.\*

## 18 SATURDAY

**University of Maryland International Music Festival Symposium:** "Musician's Education: What is Needed for the 90's?" Seymour Lipkin,

Moderator, 10-11:30 a.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International Music Festival Master Class,** Moura Lympny, 1-2:30 p.m., Center of Adult Education. \$10 admission. Call 5-6538 for info.\*

**University of Maryland International William Kapell Piano Competition Finals,** contestants perform with the National Symphony Orchestra, 8:30 p.m., Kennedy Center, Washington D.C. Reserved seating \$5-\$30. Call 5-6538 for info.\*

## 21 TUESDAY

**Instructional Television System Satellite Television Videoconference:** (July 21-22) "Reliability of Structural Components and Systems," Bilal Ayyub, Engineering, 11 a.m.-5 p.m., ITV Building. \$150 fee. Call 5-4905 for info.\*

## AUGUST

## 1 SATURDAY

**Russian National Baseball Team,** 1:30 p.m., Shipley Field. Call (703)237-4533 for ticket info.

## 4 TUESDAY

**Instructional Television System Satellite Television Videoconference:** (Aug. 4-5) "Fault Tolerant Systems for Improved Reliability," Martin Shooman and Tom Fuja, Engineering, 11 a.m.-5 p.m., ITV Building. \$150 fee. Call 5-4905 for info.\*

## 11 TUESDAY

**Instructional Television System Satellite Television Videoconference:** "The Human Resource Management Aspects of the Baldrige Award," Richard Haviland, Business, 11 a.m.-5 p.m., ITV Building. \$95 fee. Call 5-4905 for info.\*

## 25 TUESDAY

**Instructional Television System Satellite Television Videoconference:** (Aug. 25-26) "Reliability of Gallium Arsenide Microwave Integrated Circuits," Aris Christou, Engineering, 11 a.m.-5 p.m., ITV Building. \$150 fee. Call 5-4905 for info.\*

\*Admission charged for this event. All others are free.



### Sexual Harassment Education Program to Conduct Training Workshop

The Office of Human Relations Programs' Sexual Harassment Education Program is conducting a training-of-trainers workshop on June 23 from 9:30 a.m. to 4:30 p.m. and on June 24 from 1 to 5 p.m. in the Maryland Room of Marie Mount Hall. The workshop is available for 25 members of the campus community, representing a cross-section of administrators, faculty, associate staff, classified staff, and teaching assistants in an effort to provide mixed gender and ethnically diverse training teams to departments that request training. Each participant will agree to co-present up to two two-hour workshops per semester. For more information, call 405-2840.

## MSICPA Announces 1992 Season



Christopher Taylor,  
1990 William Kappell  
Competition Finalist

The Maryland Summer Institute for the Creative and Performing Arts (MSICPA) opens its 1992 season in June with the Summer Chamber Music Series, followed by the fifth season of the National Orchestral Institute (NOI)

and the 21st Edition of the University of Maryland International Piano Festival and William Kapell Competition.

The season opens Tuesday, June 9, with a recital by the Karr-Lewis Duo (Gary Karr, double-bass and Harmon Lewis, piano), and continues on successive Tuesdays throughout June, with the New World String Quartet on June 16, the Saturday Brass on June 23, and a recital with Carter Brey, cello, and Christopher O'Riley, piano, on June 30. This recital, which features a performance of Edvard-Grieg's Cello Sonata, officially kicks off the year-long, international celebration of Grieg's 150th birthday. All Summer Chamber Music Series concerts are held in the University College Conference Center Auditorium and begin at 8:15 p.m. Reserved seating tickets are \$15.

The fifth season of the NOI opens June 13 when the NOI Philharmonic performs with Kenneth Jean, music director of the Florida Symphony. The NOI Philharmonic is composed of advanced music students who come to College Park to study with faculty drawn from America's major orchestras. The NOI is a full scholarship workshop designed to help music students bridge the gap between the academic experience and the realities of working as a professional orchestral musician.

On June 20 the NOI Philharmonic will perform with Christopher Seaman, one of Britain's leading conductors, followed by a performance on June 27 with Joseph Silverstein, music director of the Utah Symphony.

The first two NOI performances will be held in Tawes Theatre at 8:15 and are free and open to the public. The June 27 concert will be held in Baltimore's Joseph Meyerhoff Symphony Hall at 8:00 p.m. Reserved seating tickets are \$15.

The 21st Edition of the University of Maryland International William Kapell Piano Competition takes place July 9-18, and features 40 contestants from all over the world who compete for more than \$50,000 in cash prizes. Competition finals take place July 18 in the John F. Kennedy Center for the Performing Arts, with the National

Symphony Orchestra, Mstislav Rostropovich, music director and Hermann Michael, conductor.

Reserved seating tickets are \$5-\$30. All competition rounds and all events of the concurrent Piano Festival are open to the public. Registration for the entire Festival and Competition are available.

The Festival offers an evening recital series in Tawes Theatre. The recitals, which begin at 8:30 p.m. and are \$15 for reserved seating, feature: Seymour Lipkin, Festival artistic director, USA, on July 12; Grigory Sokolov, Russia, on July 13; Paul Badura-Skoda, Austria, on July 14; Gary Graffman, USA on July 15; and Moura Lympany, UK, on July 17.

Registered students, faculty, staff and alumni are eligible to purchase Summer Activity Cards for \$10 per session. Session 1 runs from June 1 through July 10; Session 2 runs from July 13 through August 21. The cards, which can be purchased in person at the Campus Recreation Service Window of Reckord Armory beginning May 26, enable the holder to take part in various recreational activities on campus, and to receive one free ticket to most MSICPA events.

For more information, or to purchase tickets, call 56538.

## Maryland Chorus Presents 250th Anniversary Performance of Handel's *Messiah*

The University of Maryland Chorus will take part in "The Kennedy Center Tribute to Germany" when it performs Handel's *Messiah* at 3:00 p.m. on May 10 in the Kennedy Center's Concert Hall.

With dozens of outstanding *Messiah* performances under its belt and one of its Maryland Handel Festival performances recorded on Pro-Arte Records for international distribution, Maryland Chorus connoisseurs might believe they've heard the best. But the best is yet to come on May 10.

This special 250th anniversary presentation of Handel's *Messiah* will be unique as it recreates the first performance of this work given in Dublin, Ireland, on April 13, 1742. According to Maryland Chorus founder and director, Paul Traver, leading *Messiah* authority Donald Burrows was consulted to ensure a true reproduction of the first performance. Featured in the performance will be: Benita Valente, soprano; Denyce Graves, mezzo-soprano; Jeffrey Gall, countertenor; Drew Minter, countertenor; Curtis Rayam, tenor; and David

Arnold, baritone. Traver will conduct.

Joining the Maryland Chorus will be the Smithsonian Concerto Grosso,

Kenneth Slowik, music director.

For further information call 202/467-4600.

## Kiplin Hall Program Expanded



A summer program at Kiplin Hall, in North Yorkshire, England, is open this summer to applicants throughout the university system. Previous programs were available only to architecture students. The five-week program, running from July 13 to August 17, includes a week in Lon-

don and four weeks in north England. Free accommodations for College Park and system faculty developing proposals to use Kiplin Hall are available through an introductory offer by the College Park

committee administering the Kiplin Hall facility. The College Park committee includes David Fogle, architecture, Richard Price, history, and Richard Weaver, Study Abroad Office. For more information, call Fogle at 56309.



## Scholarships Available for Adult Women

A scholarship fund for adult women is now available through the Returning Students Program at the university's Counseling Center, Learning Assistance Service. Provided by the Charlotte W. Newcombe Foundation, the funds will be divided among students who are 25 years or older, are admitted as full or part time undergraduate students (day school) for the fall semester and have demonstrated their academic ability and a commitment to their educational goals by having completed at least half of the credits necessary for degrees by July 10. For more information, call 314-7693.

# RESEARCH

## Tyler Co-Authors Book on How Culture and Ethnicity Play Role in Psychotherapy

Culture and ethnicity can play a significant role in psychotherapy, determining client and therapist perspective and levels of understanding, says Forrest B. Tyler, a professor in the Department of Psychology.

Tyler is a co-author of *Ethnic Validity, Ecology, and Psychotherapy: A Psychosocial Competence Model*.

His co-authors are Deborah Ridley Brome and Janice E. Williams. Both are former graduate students at the university. Brome is now with the University of Massachusetts at Boston and Williams with the Morehouse School of Medicine in Atlanta and Stanford University School of Medicine.

"The original objective of our book was to present to practitioners of psychotherapy, trainers of psychotherapists, and psychotherapy students a model of conducting psychotherapy that actively acknowledges and builds upon the ethnic and racial heritage of both therapist and client," says Tyler.

In doing so, the three co-authors, who are a cross-racial and cross-gender team, developed the ethnic valid-

ity model (EVM), utilizing black/white relations in American society as the primary focus of research and prototype of example of cross-race psychotherapy.

The ethnic validity model serves as the organizing framework in the book by providing a comprehensive view of cross-ethnic/racial psychotherapy, including discussion of the psychosocial competence model which serves as the foundation of EVM.

"This book is designed to orient the therapist toward examining human competencies and coping mechanisms, as well as human frailties and dysfunctions, within a cultural context," says Tyler.

Tyler and his co-authors are especially interested in reaching students learning to do psychotherapy - all students and not just those who are from a minority group or who plan to work with minority group clients. "Our cultural identity as well as our personal and professional identities are present with their limitations as well as their strengths, even when we are interacting with someone from a

similar background," he says.

The book also deals with the psychosocial competence issue and the idea of not always looking at what is wrong with people, but what's right with them, as well.

"We need to look at how people who do put together meaningful lives, do so," says Tyler. "Much of the whole field of psychotherapy is oriented toward correcting what's wrong with people and not helping them identify and build on their strengths."

He gave an example of soldiers in war or victims of oppression and how they are affected differently by what they do and see.

"How is it that some people can experience these horrible things without being destroyed?" he says. "What are the strengths of people who build meaningful lives in spite of the difficult situations they have faced?"

The answer can be found, he suggests, in the ethnic validity of their heritage as well as their personally developed resourcefulness.

—Lisa Gregory



Forrest B. Tyler

## High-Energy Physicists Win \$7.9 Million Grant

*continued from page 1*

despite the size of the experiments, each member of the group has his or her own physics interests which are pursued individually or in small groups of two or three people.

The University of Maryland high-energy physicists have an extensive and active on-going research program, both at Fermilab and CERN, in addition to an incipient one in Texas. At CERN they are members of the collaboration known as OPAL (Omnipurpose Apparatus for the Large Electron-Positron Collider), with major responsibility for the determination of luminosity as well as for hadron calorimetry.

At present, Maryland physicists Austin H. Ball, Richard G. Kellogg, Alfred Lee IV and R. Wayne Springer, plus several graduate students, are based semi-permanently at CERN. Moreover, Professors Chang, Jawahery, Skuja, Snow and Zorn travel there frequently to participate in the collection of data and its subsequent analysis.

The LEP collider induces a positron and an electron to collide with enough energy to make a Z particle (about 100 times more massive than a proton). When the Z particle decays,

all kinds of novel and fascinating particles are ejected.

The team has had a great deal of success with the detailed properties of the Z couplings to the known particles but would like to reveal the existence of a particle known as the Higgs boson. "We think we know a lot about the universe," explains Snow, "but there's an unsolved problem: Where does mass come from? It's thought that the Higgs boson is involved but there is zero evidence for its existence."

A new large collider - the Superconducting Supercollider (SSC) - is being built in Texas. It will consist of a tunnel with a diameter approximately the size of the Washington Beltway, allowing two sets of protons to zip around with colossal energies until they collide with each other in predetermined interaction regions. The study of interactions at the SSC will either confirm the present theory (Standard Model) of particle physics or it will determine in what way the theory is violated.

Two large experiments are being designed to take advantage of the enormous energy of the Texas collider. The Maryland high-energy physicists were one of the many founding members of the Solenoidal

Detector Collaboration (SDC) at the SSC, and the Maryland group (with Skuja in the lead) is presently designing, and will soon be constructing, part of the solenoid detector.

Maryland physicists are also involved in the DOE experiment at Fermilab, again funded by the DOE. They worked on the instrumentation of the liquid argon calorimeter as well as on its calibration. They are designing and constructing the trigger for the upgrade of that experiment, scheduled for 1994. The Fermilab collider allows the group, specifically Baden, Hadley and Kunori, to look at collisions of protons with antiprotons at exceedingly high energies, and to hunt for the "top" quark as well as for particles known as gluinos. The "top" quark is an essential part of the standard model of particles and their interactions, while the gluino is essential to a theory known as supersymmetry, a generalization of previously known symmetries of particles.

"Supersymmetry is an attractive theory but there's no experimental evidence for either the Higgs boson or supersymmetry," Snow says. "Particle theorists think they must exist so it's very intriguing."



### Calling All Faxes

Linda Martin, who produces the annual Faculty Staff Directory, would like to include fax numbers for campus departments in the next edition. She asks that all departments send her their fax numbers by June 1. She can be reached at the Office of Creative Services, second floor, Turner, or faxed at 314-9344.

## Kudos to...

**Andrew Billingsley**, family and community development, who was awarded a Rockefeller Foundation Fellowship to write a monograph entitled "The Church, the Family and the Community in the African American Experience" at the Bellagio Center for Scholars in Bellagio, Italy this summer.



Dario A. Cortes

**Kyu Yong Choi**, chemical engineering, who received the Washington Academy of Sciences' 1992 Engineering Achievement Award for his research on the kinetics, control and optimization of polymerization processes.

**Dario A. Cortes**, graduate studies, who has been named to the American Council on Education Executive Committee of the Council of Fellows. He is presently Associate Dean of the Graduate Studies and Research and Director of the International Business & Foreign Language Studies Program.



Terry Gips

**Terry Gips**, housing and design, for her paper on combining time-based visual graphics and computer programming presented at the Ninth International Education and Technol-

ogy Conference in Paris in March. Her artwork also appears in current issues of the British journal *Ten\*8* and in *Feminist Studies*.

**Manoussos G. Grillakis** (Mathematics), **Jian-Shu Li** (Mathematics), **Rinaldo Poli** (Chemistry), and **Fredrick C. Wellstood** (Physics) for being selected as Sloan Research Fellows by the Alfred P. Sloan Foundation. More than 500 nominations were considered in selecting the 90 fellowship winners this year. The fellowships support young scientists who have demonstrated special creative ability in the physical sciences, mathematics, neuroscience, and economics.

**Charles O. Heller**, business and management, on his election to the Czechoslovak Society of Arts and Sciences. Until recently, the society has consisted of Czechoslovak emigre scholars; today, it also includes those living in the Czech and Slovak Federal Republic. Heller, who was born in Czechoslovakia and directs the Ding-



Charles O. Heller

man Center for Entrepreneurship, will present a paper at the society's World Congress to be held for the first time in Czechoslovakia in June.

**David R. Hershey**, horticulture, who is a new associate editor for the *Journal of Natural Resources and Life Sciences Education*, published by the American Society for Agronomy. Hershey was also an invited speaker at the 13th annual conference of the Hydroponic Society of America in Orlando, Florida, where he was elected to the society's Board of Trustees.



John Toll

**John Toll**, physics, who served as chairman of a symposium on "Beam Dynamics" as part of the program of the Division of Physics of Beams of the American Physical Society spring meeting in Washington, D.C., April 19-23. Other UMCP faculty participating in the symposium included **Alex J. Dragt**, who gave an invited paper on a "Complete Third-Order Achromat" and **Martin P. Reiser**, electrical engineering, who gave an invited paper on "Space-Charge-Dominated Beams."

## Minority Achievement Award Winners Announced

Four individuals and two campus organizations have been chosen for this year's Minority Achievement Award by the President's Commission on Ethnic Minority Issues.

Recipients are chosen for their outstanding efforts to enhance the experiences of minorities at College Park, says Ben Holman, professor of journalism and commission chair.

Winners were chosen in the categories of associate staff, classified staff, faculty, student, non-academic unit and academic unit.

Individual winners include Jennifer V. Jackson, assistant director of the Office of Minority Student Education; Dottie H. Bass, a secretary in the Office of Minority Student Education; Stephen B. Thomas, an associate professor in the Health Education Department and director of the Minority Health Research Laboratory; and Marc Powers, an undergraduate student majoring in English.

The two campus organization winners were the Upward Bound program, which is designed to prepare minority and disadvantaged high school pupils for college, and the Family and Community Development Department, which has demonstrated an outstanding record in recruitment, retention and promotion

of minority faculty and staff.

"These are persons and organizations in our community that have gone beyond their normal duties to help make this campus a better place for all, regardless of ethnic background," says Holman. "We had a particularly outstanding field of

nominees, and it was difficult selecting a single winner in most categories."

The award recipients will be honored during a ceremony from 3 to 5 p.m., May 12 in the Rossborough Inn Courtyard.



Noel Myricks and his Mock Trial Association team present President William E. Kirwan with the first place trophy won in the National Intercollegiate Mock Trial Tournament. The College Park team took first and second place in the competition, which was recently held at the Drake University Law School in Des Moines, Iowa.



## OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

MAY 4, 1992  
VOLUME 6, NUMBER 29

## Behind the Scenes: a Highly, Complex Production-Oriented Library Operation

Last year the Libraries' Technical Services Division handled over 200,000 items, including 71,095 bound volumes, 85,679 microfiche, 3,956 reels of microfilm, and 22,825 periodicals, and processed subscriptions and checked in issues for most of the annuals and newspapers received by the Libraries.

"In most research libraries these vast behind-the-scenes, highly staff-intensive production operations are taken for granted by the general university community," says Marietta Plank, Associate Director of Libraries for Technical Services. "Within research libraries," she continues, "these operations can never be taken for granted because they constitute a major part of library operations. Our growing backlog caused by recent staff cuts illustrates this vividly."

This story of how materials are ordered, cataloged, bound, labelled and shelved will help explain the staff-intensive nature of this highly production-oriented library operation.

Organizationally, the Libraries' Technical Services Division, headed by Associate Director Plank, is responsible for procuring library materials, for providing bibliographic access in the online catalog for all additions to the collection, and for physically processing materials for use by patrons.

The process begins in the Division's Acquisitions Department where items are ordered, received, and payment is authorized. For purposes of this article, we will follow the addition to the collection of a paperback entitled, *Politics and the budget; the struggle between the President and the Congress* (Third edition, 1992), by Howard E. Shuman.

Generally, there are two ways in which books are purchased. The Shuman book was acquired through the Libraries' approval plan procedure. This means that the Libraries entered into a contract with a vendor who agrees to provide, on a weekly basis, shipments of books pre-selected by the vendor in accordance with individual subject profiles in all subject areas relevant to campus teaching and research programs. In the case of *Politics and the budget*, the vendor established that it fit the profile in terms of subject area, format, and academic level. After its arrival here,

the book was reviewed by a designated librarian, known as a "bibliographer" or "selector," who selected it for the collection; otherwise, it would have been returned to the vendor.

Approximately one-third of the new books received are purchased through the approval plan; others are individually ordered or received as gifts. Individually-ordered titles are either selected by librarians or recommended by faculty. Books received as gifts are selected in the same manner as approval plan books.

All books are then sent to the Cataloging Department which creates records for each title in the Libraries' online catalog, VICTOR.

Books reaching Cataloging are put in groups or queues; for instance, *Politics and the budget* is placed with others that were received via the approval plan. Usually books in the queues are processed in the order they were received; however, certain materials are given priority for cataloging, such as a book placed on course reserve by a faculty member. In addition to the books in the queue, approximately 4,000 others are in process throughout the Technical Services Division at any time, usually on book trucks.

The first step in cataloging a book is applying a barcode label. This is the unique identification number by which the book will be controlled in the Libraries' online catalog and circulation system, VICTOR. Next, the books are taken to an OCLC terminal in the Cataloging Department and a staff member searches the OCLC union catalog to find a catalog record that matches the title to be cataloged. OCLC is an international online bibliographic database containing millions of cataloging records created by OCLC-member libraries.

If a matching catalog record is found in the OCLC database, as is the case with the book we are following, the library can adapt this record for use in its local catalog. This process is known as "copy cataloging" and the Libraries are able to do this for the vast majority of materials to be cataloged.

But what would have happened if, in this case, the Library of Congress had not created an OCLC record for *Politics and the budget*? If no matching record can be found, the item must be sent to a professional cataloger to create an original cataloging record, an extremely time-consuming process. The book is then returned to a clerical

cataloger who adds the record to the OCLC database where it is now available for other OCLC-member libraries to use for copy cataloging.

From Cataloging, books go next to the Preservation Department for physical preparation. In the case of *Politics and the budget*, it receives a property stamp bearing the legend "University of Maryland Libraries," a date due slip, a call number on the spine, and a security device to conform to the book security system. Since Shuman's book is a paperback, it is sent to a bindery for binding in hard covers before the above processing occurs.

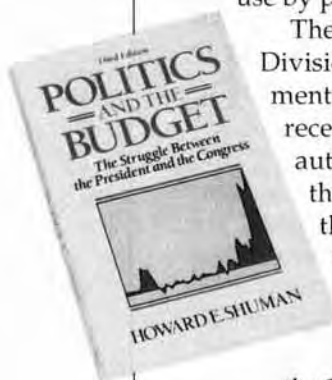
Preservation also has a Repair and Restoration Unit which handles materials requiring other kinds of physical preparation. For example, pamphlets added to the collection are placed in pamphlet binders, damaged books or pages are repaired, and special containers that can be labelled and shelved are constructed for items such as computer disks or audio cassettes.

Having completed its journey through Preservation, *Politics and the budget*, cataloged for Hornbake Library, is ready for shelving and circulation. If this book had not been new to the collection, but an additional copy of one already on hand, it would have gone directly from Acquisitions to the Catalog Management Department, bypassing Cataloging. Catalog Management would attach a barcode label, add the necessary information to the online catalog, and then send it to Preservation. Catalog Management also has the function of deleting all records pertaining to lost, out-of-date, or badly-damaged books as well as transferring materials from one library collection to another.

Getting materials to users in a timely fashion remains the highest priority. To the extent that faculty, researchers and students have a basic understanding of the process involved, they will have a better appreciation of what the Libraries can provide and why they are more important than ever before.



Books in queue await cataloging







Dr. Harrar (l), Director of Libraries, receives check helping to extend hours of Late Night Study Room from Grant Schmelzer and Jodi Cahalin, overall chairs of the 1992 Greek Week committee

## Improved Access to Manuscripts, Archives

Not since 1978 has the Historical Manuscripts and University Archives Department produced an entire listing of all its collections available for research.

That information gap has been filled by two recently-completed compilations: *Guide to the Historical Manuscript Collections* and *Guide to the University Archival Record Groups*.

Prepared by student assistants under the direction of Associate Curator Anne S. K. Turkos, these guides contain paragraph-length

entries for all historical manuscript collections and university archival record groups, processed and unprocessed, that are currently open for research. Each entry contains the inclusive dates and size of the collection as well as description of the document types and subjects covered. The two guides are available for consultation in the Maryland Room, temporarily located in Hornbake Library, and are also available at McKeldin and Hornbake Reference.

In addition, the UMCP Libraries' online catalog, Victor, is now able to

provide information about manuscripts and archival record groups. All processed collections have been cataloged individually and are presented in Victor under appropriate titles, personal and corporate names, and subject headings. Collections can also be searched on Victor by call number. For additional information, contact Lauren Brown or Anne Turkos in Historical Manuscripts and University Archives, 5-9058.

## UnCover Database Provides Vast Journal Article Access

Patrons of the Libraries are finding the relatively new online catalog named VICTOR fast, reliable, easy-to-use and comprehensive. What has become especially popular is its UnCover database that gives users the opportunity to search online for journal articles on virtually every subject with the same terminal and in essentially the same manner they search for book materials. UnCover has a database containing over 10,000 journal titles and about two million article titles.

Each year more than 600,000 articles are added to the database including both general interest as well as scholarly journals published since October 1988.

UnCover represents a collaborative venture involving the various client members of CARL (Colorado Alliance of Research Libraries), a provider of online services for research and public libraries stretching from Boston to Hawaii and including the University of Maryland System.

Participating libraries in the western states send their journals to CARL at its Denver headquarters where they are checked in and their tables of contents entered into the UnCover database. These journals are then returned to the libraries within a period of 24 hours.

UnCover represents an alternative method to journal access, in addition to optical disc and other similar technology. From the user point of view, UnCover's 24-hour indexing turnaround time provides more current access than that offered by online or print services. It also brings together articles from all subject areas in one location.

UnCover's major attributes are its ease of use, breadth of coverage,

and frequent updating. In terms of breadth of coverage, UnCover is multidisciplinary. It includes journals in the arts, architecture, the sciences, social sciences and humanities, from U.S. and foreign publishers. These range from the *Journal of British Studies*, *Journal of Chinese Religions*, and *Journal of European Business* to *Angewandte Chemie*, *Cahiers d'etudes africaines*, and *Zeitschrift für angewandte Mathematik*.

Through Uncover 2, the option to order the full text of an article via FAX is available to the UnCover user; the only requirement is having a credit card and access to a FAX machine. Patrons should bear in mind that the UMCP Libraries do not provide public access to FAX machines and cannot be responsible for the delivery of materials ordered through UnCover.

A fact sheet entitled "How to Search UnCover" is available at all UMCP Libraries.

**EYXAPIETΩ!**  
(THANK YOU!)

Thanks to generous financial support made possible by the 1992 Greek Week Project and the efforts of members of the College Park fraternities and sororities, the Late Night Study Room in Hornbake Library is now open 24-hours-a-day through 5 p.m., Monday, May 18, 1992.

An announcement will be made soon regarding additional plans to extend hours during the Fall 1992 Semester.

The University Libraries thank all of the fraternity and sorority members who helped make this possible.

## CD Roms

In recent years the proliferation of CD-ROM technology in university libraries has been dramatic—the primary motivating factors being speed, flexibility, and high density storage. There are now approximately 70 of these automated reference sources that can be searched free of charge at the UMCP Libraries.



Printed on Recycled Paper

SPECIAL LIBRARIES SUPPLEMENT

## OUTLOOK

This special Libraries Supplement has been prepared by the staff of the University of Maryland at College Park Libraries.

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H. Joanne Harrar

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This supplement was produced in cooperation with the Offices of Public Information and Creative Services.

Comments and suggestions about this supplement are welcome and should be directed to Dr. H. Joanne Harrar, Director of Libraries, (301) 405-9127.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

### UMCP Libraries Directory of Services

Architecture	405-6317
Art	405-9061
Chemistry (White Memorial)	405-9078
Computer Assisted Research Service (CARS)	
Art	405-9064
Engineering and Physical Sciences	405-9157
McKeldin	405-9286
White Memorial	405-9078
Disabled Users Services	405-9266
Engineering and Physical Sciences	
Circulation	405-9140
Reference	405-9157
Technical Reports Center	405-9161
Government Documents/ Maps (Hornbake)	405-9165
Hornbake	
Circulation	405-9102
Periodicals/Microforms	405-9271
Reference	405-9257
Undergraduate Course Reserves	405-9289
Interlibrary Loan (McKeldin)	405-9178
McKeldin	
Circulation	405-9095
Graduate Course Reserves	405-9099
Library Hours (Recording)	314-9428
Periodicals/Microforms	405-9244
Reference	405-9075
Special Borrowers Office	405-9087
TDD	405-9076
Music	405-9217
Nonprint Media Services	405-9236
Public Services Office (Administration)	405-9251
Special Collections (Hornbake)	
East Asia Collection	405-9133
Maryland Room	405-9212



Cheruvellil Joseph repairs binding in Libraries' Preservation Department



## Newly Acquired Collections Spur National Public Broadcasting Archives' Growth

The National Public Broadcasting Archives was established on June 1, 1990 and already it represents a unique center for the collection of manuscripts, organizational records, and audio and video tapes, films and personal papers dealing with the development of public broadcasting in the United States. To date this repository houses the complete archives of National Public Radio (NPR) and the Association of Public TV Stations (APTS), as well as a sizable amount of materials from the Public Broadcasting Service (PBS), all of this being the equivalent of 1,200 boxes of materials.

The Archives, set to open to the public in the near future, is located on the ground floor of Hornbake Library. Its Director is Dr. Donald R. McNeil who originally conceived of the collection and has taken primary responsibility for bringing it into being. Lauren Brown serves as Curator. What will make the Archives especially unique and its collections unusually comprehensive is that the four major organizations associated with public broadcasting—PBS, NPR, the Corporation for Public Broadcasting (CPB), and APTS—have all committed their records to the Archives.

The Archives is growing rapidly,

both in terms of collections received and staffing, and many of its newly-acquired collections are already being made available to the research community.

Recently, at a warehouse facility in the District of Columbia where hundreds of boxes of CPB records were stored, Archives' staff (at right) sifted through all of the documents. The trio performing this painstaking task included, from left, Program Analyst Karen Eglinton, Curator Lauren Brown, and the Director, Dr. Donald McNeil.



## Nonprint Media Services Plays Key Role in Campus Telecommunications

Building upon a national pioneering effort of the 1970's, the UMCP Libraries' Nonprint Media Services Center offers one of the most impressive collections of films, videocassettes, videodiscs, audiocassettes and other nonprint materials in our region. Nonprint also provides an extraordinary range of services which ensures ease of access to audiovisual materials both in and out of the classroom. In addition, the Nonprint Center plays a key role in the operation of the campus' video distribution system and in campus telecommunications.

In 1972 the College Park Libraries installed one of the first large-scale video facilities in the nation, establishing UMCP as a pioneer in bringing the power of video technology to faculty and students. The key focus then was to make video tapes accessible to students as well as to faculty, and this was considered a bold move since films were rarely made available to students.

Over the years, because video tapes are a flexible educational tool, they have been used in large classrooms, especially those equipped with modern projection television systems, and also in small groups or individually by students in library carrels.

At Nonprint Media Services in Hornbake Library, there are 23 VHS video tape players available in carrels for walk-in student use. In addition, there are nine 3/4-inch U-Matic video cassette players, four laser videodisc players, 66 audiocassette players, two film projectors, and equipment for viewing filmstrips and slides.

To compliment all of this hardware, Nonprint Media Services has more than 4,000 video tapes available, as well as 3,000 audiocassettes, 200 laser video discs and other materials.

To insure that all students see an important video tape, Nonprint Media Services offers an in-house cable TV system called Dial Access. The Dial Access system has 14 color video channels that can be used by faculty members to make video tapes available to students for class assignments. Faculty can place a tape "on reserve" in this system for six days at a time—Dial Access is not available on Saturdays.

Tapes available through Dial Access play on a scheduled basis and students can come to Nonprint Media Services to view them at their convenience. There are 48 Dial Access stations to choose from and the system is as easy to use as a home television.

At times faculty members want to show video tapes in their regular classrooms but are unable to do so because other than the larger lecture halls, few campus classrooms are equipped for video viewing. This should no longer be a problem thanks to the installation of a state-of-the-art communications system that will make UMCP the envy of its peer institutions.

A key component of this new technology is the video distribution system which has its head-end, or point of origination, in Nonprint Media Services. This new video distribution is operating with six channels of video available to properly-equipped classrooms. Once

the entire new wiring is in place, most classrooms and all lecture halls will be connected to Nonprint Media Services. This connection, coupled with a remote control system developed on campus, will enable a faculty member to operate video players by remote control from a classroom on the other side of the campus.

Since most classrooms will now be wired for video, live television programming or satellite broadcasts can be fed in when required. For example, UMCP students could view a course being taught in another state and ask questions of the instructor by telephone. Students at UMCP have already participated in several of these teleconferences and the number is expected to grow as the campus gains more access to the system.

Over the next few years video monitors and projection television equipment will continue to be installed in classrooms on campus until the system is available to every faculty member.

Telecommunications in all its forms serves an important and growing need for UMCP in the 1990's. Video distribution provided by the Libraries' Nonprint Media Services plays a vital role in filling this need.

### 1990-91 Average Costs of Periodical Subscriptions by Library

Architecture Library.....	\$54
Art Library.....	\$55
College of Library and Information Sciences.....	\$95
Engineering and Physical Sciences Library.....	\$325
Hornbake Library.....	\$87
McKeldin Library.....	\$145
Music Library.....	\$30
White Memorial Library (Chemistry).....	\$660
Average cost for all subscriptions.....	\$218



## Did You Know?

*Insights*, a publication of the Division of Student Affairs, asked students to identify the places where they spend their time between classes. Among graduate students the most frequently chosen options were libraries (41%) and offices on campus (23%). Undergraduates also tended to cite libraries (28%), along with their places of residence (27%).

## News Segment Filmed for Japanese TV Recalls Gen. MacArthur's Reaction to Report



When "News 2001," a weekly television program made its debut over the FUJI Television Network across Japan on April 19th with a profile of former Prime

Minister Yasuhiro Nakasone, one of the program segments had a distinct UMCP Libraries' flavor.

Part of the program was filmed in McKeldin Library where a FUJI correspondent studied and filmed a unique Nakasone document which is part of UMCP's noted Justin Williams Papers on Post World War II Japan.

In preparing the TV segment, Masahide Matsuoka, correspondent

and Washington bureau chief for FUJI, visited the Libraries with a television cameraman. He interviewed Mrs. Hisayo Murakami, assistant curator of the Prange Collection (photo at left), who explained the story of a document written on Jan. 22, 1951 by Nakasone to General Douglas MacArthur, head of the American forces, protesting the continued occupation of Japan.

In his 28-page report, Nakasone, at the time a freshman Japanese legislator, expressed the view that the American occupation should be immediately terminated. He referred to his document as a "report on what the Japanese are thinking about various issues confronting Japan."

According to a penciled notation on the first page of the report, the original of the document was submitted to MacArthur through Dr. Justin Williams who then was Chief of the

Parliamentary and Political Division in the Government Section of the General's headquarters. Carbon copies were sent to U.S. Senators Robert Taft (R-Ohio) and Thomas Connolly (D-Texas).

What made this story equally interesting and newsworthy to Japanese television, aside from the bravado displayed by Nakasone as a young man, was a marginal, handwritten note by Dr. Williams revealing that Gen. MacArthur was not enamored with the report. Dr. Williams wrote: "The original was taken to SCAP (Supreme Commander of Allied Powers), torn to pieces by SCAP, and hurled into the waste basket."

As part of the television news segment, correspondent Matsuoka interviewed the former Prime Minister as well as Dr. Williams who lives in Florida.

## "Old" McKeldin Renovations Move Nearer to Completion

For over a year now the "old" McKeldin Library has been closed for renovation. For those wondering when the venerable repository will be open again, there definitely is light at the end of the tunnel.



Workmen remove lead paint

The good news is that come this fall the building is expected to be partially ready

for occupancy and some material now housed in off-campus storage facilities may relocate there. The major move will occur during the Winter intersession. During the Spring '93 semester, "old" McKeldin will again be open to service its users; collections and study accommodations will be distributed across both the addition and the renovated structure.

In what is now known as McKeldin East, users will find the circulation desk on the first floor as well as a large catalog assistance/information desk, online catalog terminals, the reference collection, the bibliography collection, and the Reference Services and Interlibrary Loan offices. Periodicals, the microforms collection, newspapers, and the Photocopy Center will remain where they are at present, in the McKeldin addition.

With the reopening of McKeldin, Government Documents will return

from Hornbake Library as well as the East Asia Collection, Marylandia, Historical Manuscripts and University Archives, and Rare Books and Literary Manuscripts.

Some other features of the renovated building will be a public lounge, several large reading and study areas, a graduate reading room, open seating for about 2,000 persons, and small classrooms for library instruction.

Dr. Harrar has stressed that the reopening of McKeldin should come just in time to meet the immediate space needs of the Libraries what with such recent additions as the National Public Broadcasting

Archives, an extensive British Patents collection, and Arbitron radio and television ratings data in need of housing. However, there is growth space for only eighteen months.

While compact shelving will remain in place in the addition, it will be used primarily to house certain special collections not frequently referenced as well as archival materials not usually accessed directly by patrons. Also, with the movement of the various special collections back to McKeldin, the 24-hour study area at Hornbake Library will be restored in its former area.

## Efficiency, Economy Prompt Reorganization of Special Collections

The loss of 32 lines has necessitated several internal efforts to streamline library operations and to introduce measures of efficiency and economy wherever possible. Among these is the reorganization of two divisions whereby the Special Collections Division was abolished as a separate administrative entity and the four units comprising the division relocated within the Collection Management Division.

In announcing this reorganization,

Dr. H. Joanne Harrar, Director of Libraries, stressed that the dissolution of the division will have no effect whatsoever on the collections and access to them.

As part of this reorganization, the Collection Management Division has been redesignated the Collection Management and Special Collections Division under Associate Director Desider Viktor who previously was responsible for the Collection Management Division.